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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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5775 MOREHOUSE DR.			SAFAIPOUR, BOBBAK		
SAN DIEGO	, CA 92121		ART UNIT	PAPER NUMBER	1
			2618		
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			12/03/2007	FLECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

us-docketing@qualcomm.com kascanla@qualcomm.com nanm@qualcomm.com

Applicant(s) Application No. 10/650 564 AMERGA MESSAY

	10/030,304	AMEROA, MEGO	AMEROA, MEGGAT	
Office Action Summary	Examiner	Art Unit		
	Bobbak Safaipour	2618	v	
The MAILING DATE of this communication aperiod for Reply	opears on the cover sheet w	ith the correspondence ac	idress	
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MALLING I Extensions for time may be a valiable under the provision of 37 FR1 in the SIX (6) MOSITIS from the mailing date of this com- mission of the six of the six of the six of the six of the Failure for poly within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patient term adjustment. See 37 CFR1.7961.	DATE OF THIS COMMUNI .136(a). In no event, however, may a d will apply and will expire SIX (6) MOI tte. cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).		
tatus				
1) Responsive to communication(s) filed on 11.	September 2007.			
2a)⊠ This action is FINAL. 2b)□ Th	is action is non-final.			
3) Since this application is in condition for allow	ance except for formal mat	ters, prosecution as to the	e merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I.). 11, 453 O.G. 213.		
Disposition of Claims				
4) Claim(s) 1-21 is/are pending in the application	n.			
4a) Of the above claim(s) is/are withdra	awn from consideration.			
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-21</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/	or election requirement.			
Application Papers				
9) The specification is objected to by the Examir				
10) The drawing(s) filed on is/are: a) ac				
Applicant may not request that any objection to th				
Replacement drawing sheet(s) including the corre				
11) The oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action or form P	TO-152.	
riority under 35 U.S.C. § 119				
12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document	nts have been received.			
2. Certified copies of the priority document				
3. Copies of the certified copies of the pri		received in this Nationa	i Stage	
application from the International Bure		t received		
* See the attached detailed Office action for a lis	st of the certified copies no	t received.		
L.o.				
Attachment(s)	4) 🖂 Jetomious	Summary (PTO-413)		
) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	. Paper No	(s)/Mail Date		
B) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of 6) Other:	Informal Patent Application		

Application/Control Number: 10/650,564
Art Unit: 2618

DETAILED ACTION

This Action is in response to Applicant's response filed on 9/11/2007. Claims 1-21 are still pending in the present application. This action is made FINAL.

Response to Arguments

Applicant's arguments have been fully considered but they are not persuasive.

In the present application, Applicant essentially argues that Steudle fails teach a frequency controller for suppressing the generation of frequency switch commands when the

frequency switch blocking signal is asserted, as claimed in the independent claims.

The Examiner respectfully disagrees. Steudle discloses a connection frame number that defines the frame into whose time-slot(s) a gap (read as frequency switch blocking signal) is left for measuring inter-frequency parameters. A transmission gap (read as frequency switch blocking signal) starting slot number (TGSN) defines the time-slot of the 15 time-slots in the frame in question, from which the gap starts. Transmission gap length 1/2 (TGL1/2) defines how long the gap is as a number of time-slots, in other words, it defines the length of time during which transmission is interrupted at one time (read as suppressing the generation of frequency switch commands). Transmission gap distance (TGD) is the distance between two consecutive gaps indicated as a number of time-slots. Transmission gap pattern length (fraction (1/2))(TGPL1/2) defines the number of consecutive frames which comprise one or two gaps. Sequences of transmission gap pattern lengths are repeated until the required measurement has been made. The total time of measurement is defined as a transmission gap period repetition

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count (TGPRC), which is indicated as a number of frames and typically comprises several gap patterns. (figure 3; col. 3, lines 44 to 67)

The performance of the measurements is typically defined by means of the parameters TGL1/2, TGPL1/2, TGD and TGPRC. The parameters CFN and TGSN are used in some measurements to only define the delay to be used, which is typically a measurement pattern-specific constant value for all mobile stations. For inter-frequency handover of a WCDMA system, the fixed network UTRAN requests user equipment UE to perform inter-frequency parameter measurements. The fixed network UTRAN then signals to the user equipment UE monitoring settings for the handover and the compressed mode parameters to be used for the required measurements. (figure 3; col. 4, lines 1-20)

As a result, the argued features are written such that they read upon the cited references; therefore, the previous rejection still applies.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

Determining the scope and contents of the prior art.

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- Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Amerga et al (hereinafter "Amerga"; US 2003/0231605) in view of Steudle (US 6,810,019 B2).

Consider claim 1, Amerga discloses an apparatus, comprising: a search scheduler for scheduling a search and for generating a frequency switch blocking signal (abstract; figures 2, 4-9; paragraphs 36-39), but fails to disclose a frequency controller for generating frequency switch commands, receiving the frequency switch blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted.

In related art, Steudle discloses a frequency controller for generating frequency switch commands, receiving the frequency switch blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted. (figure 3; abstract; col. 5, lines 44 to col. 6, line 19; A gap is left for measuring inter-frequency parameters.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Steudle into the teachings of Amerga by optimizing the distribution of the measurement gaps between various mobile stations, the interference caused by mobile stations to each other at a higher transmission is reduced.

Consider claim 13, Amerga discloses a first Integrated Circuit (IC), responsive to a frequency switch signal generated in a second IC, the second IC comprising: a search scheduler

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for scheduling a search and for generating a frequency switch blocking signal (abstract; figures 2, 4-9; paragraphs 36-39); and a first IC comprising: a frequency synthesizer to receive the frequency switch signal from the second IC and to generate an output signal, the frequency of the output signal changing from a first frequency to a second frequency in response to the frequency switch signal (paragraphs 30-39).

Amerga fails to disclose a frequency controller for generating a frequency switch signal comprising frequency switch commands, receiving the frequency switch blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted.

In related art, Steudle discloses a frequency controller for generating a frequency switch signal comprising frequency switch commands, receiving the frequency switch blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted. (figure 3; abstract; col. 5, lines 44 to col. 6, line 19; A gap is left for measuring inter-frequency parameters.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Steudle into the teachings of Amerga by optimizing the distribution of the measurement gaps between various mobile stations, the interference caused by mobile stations to each other at a higher transmission is reduced.

Consider claim 14, Amerga discloses a wireless communication device, comprising: a processor for scheduling a search (abstract; figures 2, 4-9; paragraphs 36-39), but fails to disclose generating a frequency switch blocking signal; generating frequency switch commands; and

suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted.

In related art, Steudle discloses generating a frequency switch blocking signal; generating frequency switch commands; and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted. (figure 3; abstract; col. 5, lines 44 to col. 6, line 19; A gap is left for measuring inter-frequency parameters.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Steudle into the teachings of Amerga by optimizing the distribution of the measurement gaps between various mobile stations, the interference caused by mobile stations to each other at a higher transmission is reduced.

Consider claim 17, Amerga discloses a method of searching in the presence of frequency gaps, comprising: scheduling a search (abstract; figures 2, 4-9; paragraphs 36-39), but fails to disclose suppressing frequency switches during the scheduled search.

In related art, Steudle discloses suppressing frequency switches during the scheduled search (figure 3; abstract; col. 5, lines 44 to col. 6, line 19; A gap is left for measuring interfrequency parameters.).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Steudle into the teachings of Amerga by optimizing the distribution of the measurement gaps between various mobile stations, the interference caused by mobile stations to each other at a higher transmission is reduced.

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Consider claim 20, Amerga discloses an apparatus, comprising: means for scheduling a search (abstract; figures 2, 4-9; paragraphs 36-39), but fails to disclose means for suppressing frequency switches during the scheduled search.

In related art, Steudle discloses means for suppressing frequency switches during the scheduled search (figure 3; abstract; col. 5, lines 44 to col. 6, line 19; A gap is left for measuring inter-frequency parameters.).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Steudle into the teachings of Amerga by optimizing the distribution of the measurement gaps between various mobile stations, the interference caused by mobile stations to each other at a higher transmission is reduced.

Consider claim 21, Amerga discloses processor readable media encoded with software operable to perform the following steps: scheduling a search (abstract; figures 2, 4-9; paragraphs 36-39), but fails to disclose suppressing frequency switches during the scheduled search.

In related art, Steudle discloses suppressing frequency switches during the scheduled search (figure 3; abstract; col. 5, lines 44 to col. 6, line 19; A gap is left for measuring interfrequency parameters.).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Steudle into the teachings of Amerga by optimizing the distribution of the measurement gaps between various mobile stations, the interference caused by mobile stations to each other at a higher transmission is reduced.

Consider claim 2, and as applied to claim 1 above, Amerga, as modified by Steudle, discloses the claimed invention wherein a gap manager for indicating when a frequency switch is to occur, and wherein the search scheduler schedules the search during a period of time without a frequency switch as indicated by the gap manager. (Steudle: figure 3; abstract; col. 5, lines 44 to col. 6, line 19)

Consider claim 3, and as applied to claim 1 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler comprises a timer, the expiration of which indicates a search is to be scheduled. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 4, and as applied to claim 3 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules a search without asserting the frequency switch blocking signal prior to the timer expiration. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 5, and as applied to claim 3 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the timer resets upon the completion of a scheduled search. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39; performing searches at new frequencies)

Consider claim 6, and as applied to claim 3 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules a search and asserts the

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frequency switch blocking signal subsequent to the timer expiration. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 7, and as applied to claim 1 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler asserts the frequency switch blocking signal during the scheduled search. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 8, and as applied to claim 2 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules a plurality of search types. (abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 9, and as applied to claim 81 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules one or more of the plurality of search types (Amerga: abstract; figures 2, 4-9; paragraphs 36-39) in response to the frequency switch indicator received from the gap manager. (Steudle: figure 3; abstract; col. 5, lines 44 to col. 6, line 19)

Consider claim 10, and as applied to claim 8 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler comprises a plurality of timers corresponding to one or more of the plurality of search types, the expiration of each timer indicating a search of the respective search type is to be scheduled. (abstract; figures 2, 4-9;

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paragraphs 36-39)

Consider claim 11, and as applied to claim 10 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules a search corresponding to one of the plurality of search types and asserts the frequency switch blocking signal subsequent to the respective timer expiration. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 12, and as applied to claim 8 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the plurality of search types comprises one or more of a list search, a W-CDMA step one search, or a W-CDMA step two search (Amerga: abstract)

Consider claim 15, and as applied to claim 14 above, Amerga, as modified by Steudle, discloses the claimed invention wherein frequency synthesizer to receive the frequency switch commands and to generate an output signal, the frequency of the output signal changing from a first frequency to a second frequency in response to the frequency switch commands. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 16, and as applied to claim 14 above, Amerga, as modified by Steudle, discloses the claimed invention wherein a searcher for searching in accordance with the scheduled search and for indicating to the search scheduler when the scheduled search is complete. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

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Consider claim 18, and as applied to claim 17 above, Amerga, as modified by Steudle, discloses the claimed invention wherein determining future frequency switches; and wherein the search is scheduled during a time period in which no future frequency switches are determined. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 19, and as applied to claim 18 above, Amerga, as modified by Steudle, discloses the claimed invention wherein timing the duration between searches; and scheduling searches without suppressing frequency switches prior to the timed duration reaching a predetermined maximum. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Bobbak Safaipour whose telephone number is (571) 270-1092. The Examiner can normally be reached on Monday-Friday from 9:00am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Lana Le can be reached on (571) 272-7891. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-

2600.

Bobbak Safaipour

B.S./bs

November 24, 2007

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LANA LE PRIMARY EXAMINER